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USIB-D-71.6/9
21 August 1972

47

NSA, State, USAF, ARMY, DIA, NAVY reviews completed

UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR THE UNITED STATES INTELLIGENCE BOARD

SUBJECT : Fifth Annual Report of the Intelligence
Information Handling Committee

REFERENCE : USIB-D-71.1/3, 10 October 1968

1. The enclosed Fifth Annual Report of the Intelligence Information Handling Committee is forwarded for the information of Board Members.

2. A Memorandum for the President from the Director of Central Intelligence on NSAM 368 (Intelligence Information Handling System) which was submitted on 22 October 1968 (see reference) contains, among other things, a proposal that the "IHC Annual Report (which will be updated by a summary progress report at the end of the calendar year) be accepted in the future as a normal means of reporting on community information handling activity." Accordingly, in addition to the regular dissemination to the President's Foreign Intelligence Advisory Board, [REDACTED] plans to forward a copy of the subject report to Dr. Kissinger after it has been noted by the USIB.

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3. It is not now planned to schedule this report on the USIB agenda for discussion unless specifically requested by a Board member to do so prior to the close of business 6 September 1972. In the absence of such a request, it will be considered for record purposes that USIB noted the subject report.

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[REDACTED]
Executive Secretary

WARNING NOTICE
Sensitive Intelligence Sources
and Methods Involved

Exempt from General Declassification
Schedule of E. O. 11652:
Exemption Category 5B(2).
Automatically declassified on
approval of DCI

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IHC-MM-336
16 August 1972

UNITED STATES INTELLIGENCE BOARD

Intelligence Information Handling Committee

MEMORANDUM FOR : Chairman, United States Intelligence Board

SUBJECT : Intelligence Information Handling Committee
(IHC) Annual Report, Fiscal Year 1972

REFERENCE : USIB-D-71.1/3, Subject: NSAM 368
(Intelligence Information Handling System),
10 October 1968

1. This memorandum forwards for your approval the fifth annual report of the IHC which covers the information handling activities of the intelligence community for FY-72.

2. The report is prepared pursuant to the DCI's proposal (Reference) that it be used as a normal means of reporting on community information handling activities in response to National Security Action Memorandum 368.

STATOTHR

Chairman

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USIB
UNITED STATES
INTELLIGENCE
BOARD

**Intelligence Information
Handling Committee**

FIFTH ANNUAL REPORT
(July 1971 — June 1972)



Secret
IHC-AR-5
1 August 1972

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UNITED STATES INTELLIGENCE BOARD

Intelligence Information Handling Committee

Fifth Annual Report - 1 July 1971 - 30 June 1972

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CHAPTER I

Introduction

A. General

This Fifth Annual Report of the USIB Intelligence Information Handling Committee (IHC), covers the information handling activities of USIB member organizations during Fiscal Year 1972. In December 1971, the IHC members agreed that future Annual Reports should be shortened and formatted to reflect the six subplans outlined in Attachment A of USIB-D-71.1/3; subject: National Security Action Memorandum 368 (Intelligence Information Handling System) 22 October 1968. The six subplans are:

1. *Role of Management in the CIHS;*
2. *Requirements for Change in the CIHS;*
3. *Inventory, Selection, Development, and Integration;*
4. *Standardization in the CIHS;*
5. *Orientation, Training, and Documentation for Operators and Users of CIHS; and*
6. *Development of Experimental/Trial Information Handling Services.*

It was further agreed that the Inventory of Community Information Handling Systems, which has been treated separately in the past, would be made Annex A to future Annual Reports, beginning with this report. The Education and Training Report (Annex B) will be published later and like the Inventory be separately disseminated.

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B. Membership of the Intelligence Information Handling Committee

On 30 June 1972, membership of the Committee consisted of:

Chairman :
Executive Secretary:

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Organization

Representatives

■ CIA

Mr. Charles A. Briggs, Member

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■ STATE

Mr. William P. Deary, Member
Mr. Howard M. Wiedemann, Alt.

■ DIA

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■ NSA

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■ TREASURY

Mr. Alan Sturges, Member
Mr. Dennis E. Southern, Alt.
Mr. Harrison B. Williams, Alt.

■ AEC

Mr. Kirby A. Gean, Member
Dr. Lawrence E. Killion, Alt.

■ FBI

Mr. Earl W. McCoy, Member
Mr. Paul F. O'Connell, Alt.

■ ARMY

Col. Patrick A. Ulmen, Member
Mr. Donald L. Southall, Alt.

■ NAVY

Capt. Sumner Shapiro, Member
Mr. Edward L. Barker, Alt.

■ AIR FORCE

Col. William P. Olsen, Member
Mr. William F. Schulze, Alt.

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C. IHC Support Staff

The Members of the Support Staff are:

P.L. 86-36

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[REDACTED]

[REDACTED]

[REDACTED]

Mr. Donald W. Stigers, State

[REDACTED]

D. IHC Subcommittees

The Research & Development and System Design & Development Subcommittees have been active through their panels and working groups. Of the three *Intelligence Guidance for COMINT Programming* Ad Hoc Panels--Personalities, Shipping, and Air Movements--the first completed its tasks and was disestablished on 24 April 1972. The Shipping Panel is working on a final report; the Air Movements Panel forwarded to NSA Supplementary guidance on the Soviet area and is now working on the Far East problem. Actions of the Standards Panel, Indications and Warning Group, Intelligence Data Exchange Group, and Content Control Group are discussed elsewhere in the report.

E. Documents Published

A list of committee documents, published during FY-72, is attached (Annex C).

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CHAPTER II

Highlights of Reporting Period

A. Introduction

This chapter contains information on topics judged to be of particular interest. A reference is shown if the item is included elsewhere in the report or in the "Inventory of Community Information Handling Systems", Annex A.

B. Highlights

1. As a result of IHC's interest in the need to coordinate communications plans for a number of community information handling projects, CIA recommended, and USIB supported, the formation of a *Telecommunication Working Group* in FY-72. This Group reports directly to the Chairman, USIB.
2. CIA is developing two *security related management systems* to enhance security investigation processing and badge control. (See Chapter V.)
3. *Analysts' Intelligence Display and Exploitation System*, a DIA project to tie each European Intelligence Data Handling System activity into a network of on-line storage devices and support terminals, was approved in March 1972. (See Chapter V.)
4. The on-line air movements files called for in the *Intelligence Guidance for COMINT Programming* became operational at NSA in FY-72 thus permitting that agency to discontinue five daily electrical

gence System (COINS) (Annex A).

5. NSA's *SIGINT On-Line Information System* provides users access (through remote terminals) to a bibliographic file of SIGINT end-product reports. Under development for some time, it is scheduled to begin operational testing early in FY-73.

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6. Army's first (in the Washington area) large scale entry in DoD's Intelligence Data Handling system was approved by DIA. This system (*Management of Intelligence Data Base System*) is described in more detail in Annex A.
7. The Ocean Surveillance Information System at Navy's Suitland complex has an on-line automated system (*SEA WATCH*) to support their analytic efforts. Initial operational capability was achieved in March 1972. (See Annex A.)

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CHAPTER III

Communications



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- B. The *Intelligence Data Exchange-Washington* study prepared by NSA at the request of the IHC was published in May 1972. The study examines the communication needs of the intelligence community for the next five years, and recommends actions to meet such needs. Implementation of the major recommendation would link community organizations through a modular, wideband digital communications network. The IHC noted the study at its June meeting and requested the *Telecommunications Working Group* of USIB to evaluate the findings.



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D. Naval Intelligence Command Communications

1. During FY-72 the *Naval Intelligence Processing System Support Activity* completed arrangements with the Naval Security Group and NSA for the incorporation of *high frequency direction finding* data into the NSA *SPECTRUM* System. *SPECTRUM* is an automated on-line system designed to combine, correlate and report the multi-source data processed by the individual *AUTOLINE* (Annex A) systems, thus providing, to NSA and its customers, a near real-time worldwide air, ground and ocean surveillance system. Data from *SPECTRUM* will reach *Naval Ocean Surveillance Information Center* analysts via Teletype.
2. The Naval Intelligence Command has established a consolidated communications center at Suitland, Maryland. One of its primary

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roles is support of the *SEA WATCH* System which provides automated support to the Naval Ocean Surveillance Information Center. The first phase, the *Navy Automatic Relay Controller System*, became operational in March 1972 and has been 93 percent reliable. Naval intelligence communications planning for the near future (FY-74-75) includes a modernization program to improve current communications and to accommodate future wideband communications networks of [] landlines and microwave systems.

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E. The NSA [] plan suggests the use of existing microwave systems to provide alternate routes for [] landlines. In January 1972, the NSA/Naval Security Station (NSS) microwave link was significantly upgraded. Soon NSA expects to provide alternate routes for wideband data transmission to DIA, Arlington Hall Station (AHS), and CIA, Langley using existing microwave links between AHS and NSS, and CIA and NSS (see [] Annex A.) *COINS* is currently using [] circuits between NSA and the CIA terminal, and between NSA and the DIA network switch.

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CHAPTER IV

Management and Requirements

- A. The Presidential Memorandum of 5 November 1971 introduced a new dimension into the *planning, programming, and budgeting* cycle for the Community Information Handling System. DCI Directives 1/4 and 1/15, which define the role of the IHC vis-a-vis the USIB and the Intelligence Resources Advisory Committee are being rewritten in the Intelligence Community (IC) Staff. In addition, IC Staff members have initiated discussions with the IHC member organizations concerning departmental and agency information handling plans and programs so that they may acquire the detailed background needed to formulate inputs to the national intelligence program. To support this effort the data base for the *Consolidated Intelligence Resources Information System (CIRIS)* (Annex A) is being augmented and the need for additional capabilities in that system is being considered.
- B. Close collaboration between the IHC and the *Security Committee, USIB*, resulted in the joint issuance of "Guidelines for ADP Disaster Prevention and Contingency Back-up Planning". During FY-72, under guidelines issued previously for security in resource-sharing computers, *DIA* initiated a test of its on-line system, *DIAOLS*, to determine if it could be certified for multilevel operation. Representatives from the intelligence community participated in the test.
- C. The IHC sponsored two symposiums on information handling technology for members of the intelligence community in FY-72. A principle objective in each symposium, one on *Mass Memory* devices, the other on *Terminals*, was to lay a groundwork for defining community requirements.
- D. Data communication requirements received much attention in FY-72. In Chapter III actions taken to define some requirements and to satisfy others are discussed. Liaison is maintained with the *Telecommunications Working Group* to assure that the required technical exchange with IHC takes place.

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CHAPTER V

Inventory, Selection, Development, and Integration

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- A. The Inventory of Community Information Handling Systems has been augmented by the nomination of 28 entries hitherto unreported in this compendium. Eight entries were retired from the Inventory making a net gain of 20 in FY-72 for a total of 73. The Inventory publication has been redesigned and is provided as Annex A to this report.
 - B. There were several significant developments in *COINS* in FY-72. CIA Headquarters re-established its link with the *COINS* network in October 1971 utilizing the [] line. There are now *COINS* terminals at the Navy Field Operational Intelligence Office; Headquarters Air Force Intelligence; Continental Air Defense Command; and Headquarters, Pacific Command and three of its local components.
 - C. The *National Photographic Interpretation Center* has published a detailed manual on the *Installations Data File* to assist the community service centers in handling data from the National Base of Imagery Derived Information.
 - D. In the *Agency for International Development* coordinated information handling systems continued to receive much emphasis. On-line access to the international Monetary Fund's *International Financial Statistics* was added to the on-line resources of the Bureau for Program and Policy Coordination and independent studies have been done on subjects such as the determinants of foreign aid and an econometric model of Thailand.
 - E. *DIA* reports that the development of an integrated *Analysts' Intelligence Display and Exploitation System (AIDES)* in the European Command was approved in March. In *AIDES* each European IDHS component will have a computer of appropriate size with support terminals. The computers will be linked by communications to enable analysts to use any computer in *AIDES*.
 - F. The *Air Force* started converting software and graphic programs for use on display consoles supported by a minicomputer. The consoles will be

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used in photo-mensuration to scale objects up or down and fit them into place as well as to produce three-dimensional drawings from stereo-mensuration data and to extract accurate shapes and contours for antennas to determine their frequency ranges and propagation patterns. The *Laser Image Processing Scanner (LIPS)*, which is now in use at three Air Force installations, has been further improved. LIPS enables a photo analyst to analyze the information in a reconnaissance photograph and process the digitized image in a computer to enhance its quality.

- G. Developments in management systems have been noteworthy. *CIA's* Office of Computer Services has developed a sophisticated *cost accounting system* for third generation computers to inform users of the cost of each project and so stimulate cost/benefit decisions. The Office of Security and the Support Information Processing Systems Task Force at *CIA* are developing two *security related management systems*: one, to support both control over security investigations and control of investigative resources; the other, an on-line record system to maintain control over the badges and security credentials issued by *CIA*. *DIA* established a *Management Information Center* and initiated a study to examine the requirements for a management information system for the Agency. The Naval Intelligence Command participates in the *Automated Data Processing Program Reporting System* which handles information concerning costs, inventory and use of automatic data processing equipment.

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CHAPTER VI

Standardization in the CIHS

- A. Since the Office of Management and Budget requested all government agencies to register standards of general interest with the National Bureau of Standards, the *Standards Panel* of the System Design and Development Subcommittee agreed to recommend the registration of all unclassified data standards. The first such USIB standard selected for the NBS Registry was the *Content Control Code (CCC)*.
- B. By November 1971 all member organizations had informed USIB of their compliance, or had given a timetable for compliance, with *Federal Information Processing Standards (FIPS)* when transmitting information from one intelligence agency to another. The only FIP Standards affecting inter-agency data exchange were FIPS 4 (Date) and FIPS 10 (Countries, Dependencies, and Areas of Special Sovereignty).
- C. In other standards activities, the geo-political schedule of the CCC was put on CIA's automated typesetting system and reissued in June. The community members who constitute the *Content Control Code Group* also closely followed further testing of variations of the CCC subject schedule conducted at CIA, NSA, and State Department. The Department of State tested the *Traffic Analysis by Geography and Subject (TAGS)* system of drafter-applied subject codes in November of 1971 at thirty foreign service posts and in ten State offices. Test results indicated that TAGS can successfully screen and partially index State cables and airgrams. An operational version of TAGS has been developed, taking into account what was learned in the test.
- D. NSA's *Data Standards Center* has been in existence a year and a half. In February 1972 it published the expanded NSA Data Standards Manual, which enumerated 78 data elements--including all Federal and USIB approved data standards--to be used at NSA. The Director, NSA has also authorized his Data Standards Center to approve or disapprove computer projects, on the basis of data features employed, prior to their being processed on NSA computers. Review procedures were established, effective 15 September 1971, under which NSA computer projects are either certified, or are scheduled for conversion to conform with published data standards.

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- E. Of significant importance to participants in DoD's Intelligence Data Handling System was the formation of a *Defense Intelligence Data Elements Standards Committee (DIDESC)*. After the DoD standardization effort was strongly affected by resource reductions, representatives of the military services and of tactical intelligence data systems met in January 1972 to draw up a charter for a project to achieve data exchange standards. The charter took as its basis a proposed DIA Instruction on the IDHS data standardization program, which introduced the idea of separating data standards to be used in data exchange from those to be used in the data files of individual service components.
- F. Among the standards of interest and use to the intelligence community developed by DIA during the year, special mention goes to "*Standard Security Markings*" (DIAM 65-19, 17 January 1972, Confidential), which helps meet a long recognized need. A second important development at DIA was the modification of the *Intelligence Data Elements Automated System*, the DIA data base of intelligence data standards, to be more in accord with and responsive to the DoD data standardization plan and to meet the requirements of the DIDESC. The data base will contain, as before, USIB, DoD, IDHS, and DIA approved data standards, and those data elements being developed for community use.

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CHAPTER VII

Orientation, Training, and Documentation for Operators and Users of CIHS

Narrative and statistical submissions for this chapter will be published in Annex B, Education and Training Report to IHC-AR-5. Annex B will be published in the fall of 1972.

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CHAPTER VIII

Development of Experimental/Trial Information Handling Services And Research and Development

- A. NSA has contracted with Dr. Ed Adams of IBM to develop reliable techniques for evaluating *COINS* from a users viewpoint. The techniques developed may be directly applicable to other community systems.
- B. *Compass Preview* is an advanced development program in *Air Force* to consolidate all sources of information required in image analysis in one device and to accommodate imagery from an electronic or optical sensor in the same device.
- C.
 is working on methods of representing narrative text for computer storage and retrieval. Methods currently under development will provide an improved derivation of intelligence from text and will be used in both reference retrieval and fact retrieval systems to replace traditional indexing procedures.
- D. CIA reports that:
1. CIA/CRS is studying computer text searching systems to develop a system to supplement or replace the capabilities of the *Rapid Search Machine*.
 2. A follow-on project to the *Machine Assisted Dissemination System* encompassing the whole range of information processing function is in progress in CIA/CRS.
 3. An experimental *text searching system* is under development in *CIA/ORD*. The key features of this system are that it utilizes a minicomputer, and it searches at near hardware operating speeds.
- E. Development of an *Integrated Automated Intelligence Processing System* for the *Naval Intelligence Command* was approved in the 1972 General Defense Intelligence Program. This system will support their management of requirements and the operation and management of collection, storage, production, display and dissemination of intelligence information. Development is scheduled to begin in FY-74.

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- F. The *ELINT Analysis and Processing Subsystem* development continues [] for the Strategic Air Command. The objective is to provide analysts with on-line access to an integrated intelligence data base. A Phase I Pilot Subsystem is presently being implemented, and will be available for test and evaluation in second quarter FY-73.
- G. The *Graphic Display System (BOOKER)* was designed to meet NSA's requirements for display of graphic materials, but the basic system was expanded to provide a general purpose graphics capability. It became fully operational in September 1971.
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- H. [] is continuing development of a *Human Readable/Machine Readable* integrated microfilm-based laser recording/readout system for storage and retrieval of textual and graphic information in holographic form. Delivery of an experimental model is expected in early FY-73.
- I. The *Indications and Warning Information Network (IWIN)* paper developed under the aegis of the Research and Development Subcommittee (R&DS) of *IHC* describes in detail a concept for improved information handling among operations centers in the Washington, D.C. area. The paper was completed in July 1971 and forwarded to the *IHC*. Subsequent tasking of the R&DS by the *IHC* regarding a minimum prototype of the *IWIN* concept produced a "Proposal for an Experimental Configuration" dated 7 April 1972.
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- J. Chinese-English and German-English *machine translation* efforts continue [] supported by parallel development in input/output processing. Initial operating capability is expected in August 1974. Evaluation techniques are being developed to measure performance.
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- K. [] is engaged in a study to determine the technical feasibility of an *optical character reader* to scan any font of any alphabet or of the characters used for Chinese and Japanese.
- L. *DIA*, since July 1970, has sponsored research to test the application of Bayesian procedures and numerical estimation in intelligence analysis, (*Probabilistic Information Processing System*). The research to date has provided favorable results. The effort is being expanded to test the possible use of these applications in the scientific and technical intelligence areas and the allocation of resources associated with reconnaissance and intelligence collection.

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M. A prototype low cost *Photo Interpreter Report Edit Station* has been developed [] for use at remote intelligence field units. The system is self-contained and consists of four modules: a display, TTY-32 ASR, an operator keyboard and an inexpensive minicomputer. The device was designed [] engineers and constructed by the [] [] It is currently undergoing operational feasibility tests. The system will allow an operator to compose, edit and verify intelligence reports using the DIA standard IPIR/SUPIR formats.

N. Efforts are continuing between [] and *Headquarters, Tactical Air Command* to develop an integrated intelligence system to provide IDHS support to the Tactical Air Force. Current efforts include a *Tactical Air Force Intelligence Exploitation System Microfilm Subsystem*, and a *Radar Prediction Subsystem*. Other subsystems have been planned and will be developed and integrated to provide an initial operating capability by mid-1975.

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UNITED STATES INTELLIGENCE BOARD

Intelligence Information Handling Committee

FIFTH ANNUAL REPORT

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UNITED STATES INTELLIGENCE BOARD

Intelligence Information Handling Committee

FIFTH ANNUAL REPORT

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**ANNEX C
IHC-AR-5**

Checklist of IHC Documents Published During Fiscal Year 1972

IHC-D-130/7 4 April 1972	MEMO FOR: Distribution List (Attachment 1) SUBJECT : Annual Report on Intelligence Information Handling
*IHC-D-129/25 20 August 1971	MEMO FOR: IHC, Subcommittee, and Panel Members SUBJECT : Distribution of IHC, Subcommittee, and Panel Documents
IHC-D-129/7 8 November 1971	MEMO FOR: Distribution List SUBJECT : IHC Structure
IHC-D-126/25 15 November 1971	MEMO FOR: IHC Members SUBJECT : Use of Federal Information Processing Standards in Exchange of Intelligence Data
IHC-D-123/25 8 July 1971	MEMO FOR: Distribution List SUBJECT : Inventory of Community Information Handling Systems
IHC-D-123/26 18 October 1971	MEMO FOR: CIA Member, IHC SUBJECT : Inventory of Community Information Handling Systems (CIHS)
IHC-D-123/27 9 November 1971	MEMO FOR: CIA Member, IHC SUBJECT : Inventory of Community Information Handling System (CIHS)
IHC-D-123/28 1 February 1972	MEMO FOR: CIA Member, IHC SUBJECT : Inventory of Community Information Handling System (CIHS)
IHC-D-123/29 25 February 1972	MEMO FOR: Distribution List (Attachment 1) SUBJECT : Revision/Addition of Systems to the Inventory of Community Information Handling Systems

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IHC-D-113.5/12 21 June 1972	MEMO FOR: Distribution List Attached SUBJECT : Information Science Training Report, RCS: DIA-OA-T2
IHC-D-111/1.1/29 7 September 1971	MEMO FOR: Holders of Content Control Code SUBJECT : Content Control Code, Change 11
IHC-D-111/1.1/30 8 June 1972	MEMO FOR: Holders of the Content Control Code SUBJECT : Content Control Code, Change 12
IHC-D-94/14 4 August 1971	MEMO FOR: IHC Members SUBJECT : Intelligence Guidance for COMINT Pro- gramming (IGCP)
IHC-D-94/15 31 August 1971	MEMO FOR: Chairman, IHC SUBJECT : Progress Report on IGCP Tasks
IHC-D-94/16 12 November 1971	MEMO FOR: IHC Members SUBJECT : Intelligence Guidance for COMINT Pro- gramming (IGCP) Air Movements
IHC-D-94/17 11 February 1972	MEMO FOR: Chief, Information and Reporting Elements, Production, NSA SUBJECT : Intelligence Guidance for COMINT Pro- gramming (IGCP)
IHC-D-94/18 14 June 1972	MEMO FOR: Chief, Information and Reporting Element, Production, NSA SUBJECT : Change to IHC Guidance on Automated Data Bases

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